



JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY
SCHOOL OF HEALTH SCIENCES
UNIVERSITY EXAMINATION FOR DIPLOMA IN COMMUNITY HEALTH AND
DEVELOPMENT
1ST YEAR 2ND SEMESTER 2013/2014 ACADEMIC YEAR
CENTRE: KISUMU

COURSE CODE: HCD 2121

COURSE TITLE: BASIC MICROBIOLOGY

EXAM VENUE: **STREAM: Diploma in Comm. Health & Development**

DATE: 2/12/2013 **EXAM SESSION: 9.00 – 10.30 AM**

TIME: 1 ½ HOURS

Instructions:

- 1. Answer ALL questions in section (A) and ANY other 2 questions in section B**
- 2. Candidates are advised not to write on the question paper.**
- 3. Candidates must hand in their answer booklets to the invigilator while in the examination room.**

SECTION A

1. Differentiate between Eukaryotes and Prokaryotes. (3 marks)
2. State and explain any 2 conditions favouring the survival of microorganisms. (3 marks)
3. Enumerate any 3 agents used in the control of bacteria. (3 marks)
4. Identify any six organelles found in eukaryotic cells. (3marks)
5. Name with examples 3 groups of antimicrobial agents in common use. (3marks)
6. Describe with examples the morphological classification of bacteria. (3 marks)
7. Outline 3 effects produced by antimicrobial agents. (3 marks)
8. Highlight the ecological relationships that exist in microorganisms. (3 marks)
9. State and explain two characteristics of a cell. (3 marks)
10. Distinguish anabolism and catabolism. (3 marks)

SECTION B

11. With a clear illustration, describe the process of growth of microorganisms. (15 marks)
12. Discuss the different methods of sterilization including their relative advantage (15 marks)
13. Discuss the various areas microorganisms are applied positively by humans (15 marks)